



CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)



An ISO 9001-2015 Certified Company

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QC ABSTRACT

Name of Work: Augmentation of Water Supply through Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & Chikkasandra Village in W.No.12, BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes as per Frequency	Actual No's of testes as per Frequency	Testes Results
1	1:4:8	37.06 Cum	1	1	Pass
2	Steel	2.61 Tonne	1	1	Pass
3	CC Blocks 400x150x200	95.76 Sqm	1	1	Pass
4	M15	2.72 Cum	1	1	Pass
5	M25	74.51 Cum	5	5	Pass
6	Slab - 250mm	40.50 Sqm	1	1	Pass
7	CPVC Pipes-50mm	981.00 Rmt	1	1	Pass
8	PVC Pipes-250mm	450.00 Rmt	1	1	Pass
9	Colour glazed Tiles	30.10 Sqm	1	1	Pass
10	Designer Tiles	35.74 Sqm	1	1	Pass
11	WMM	160.77 Cum	-	-	
	Atterberg Limits		2	2	Pass
	AIV		1	1	Pass
	Shape Test		1	1	Pass
	Gradation		2	2	Pass

Exceeding

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
ಶಿಕ್ಷಣ ಮತ್ತು ಉಪವಿಭಾಗ
ಬಿಜನೂರಿ, ಬೆಂಗಳೂರು





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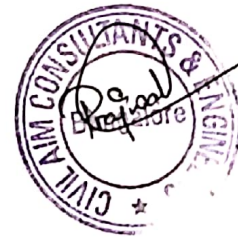
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12	DBM	27.00 Cum	-	-	
		Quality of Binder	1	1	Pass
		AIV	1	1	Pass
		Shape Test	1	1	Pass
		Gradation	1	1	Pass
		Specific Gravity	1	1	Pass
		Stability of Mix	1	1	Pass
		Bitumen content	1	1	Pass
13	BC	21.60 Cum	-	-	
		Quality of Binder	1	1	Pass
		AIV	1	1	Pass
		Shape Test	1	1	Pass
		Gradation	1	1	Pass
		Specific Gravity	1	1	Pass
		Stability of Mix	1	1	Pass
		Bitumen content	1	1	Pass

Cubes
0-5 Cum 1Set
6-15 Cum 2Set
16-30 Cum 3Set
31-50 Cum 4Set
Add 1set for extra 50Cum

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Kscccj m
ಪ್ರಮುಖವಾಗಿ ಅಭಿಯಂತರರು
ಶಿಕ್ಷಕರು ಉಪವಿಭಾಗ
ಜವಾಬ್ದಾರಿ ವಹಿಸಿದ್ದಾರೆ





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Job No.: CACE /BBMP/RS/W.No.12/2022-23

TEST REPORT

Date: 29.10.2022

CLIENT	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
AGENCY	:	Sri R Shivaram , Contractor ,Bangalore.
NAME OF THE WORK	:	Augmentation of Water Supply throught Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & Chikkasandra Village in W.No.12, BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE	:	September - 2022
DATE OF TESTING	:	27.10.2022 TO 29.10.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	335 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	2 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50 %	-

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- ⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

Success

*ಕರ್ನಾಟಕ ಅಭಿವೃದ್ಧಿ
ಶಿಕ್ಷಣ ಉಪವಿಭಾಗ
ಬೆಂಗಳೂರು*

For CIVIL AIM CONSULTANTS & ENGINEERS

Pragat
Authorised Signatory



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Job No.: CACE/BBMP/RC/W.No.31/2022-23

Date :29.10.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : Assistant Executive Engineer, K G Halli Sub Division, BBMP, Bangalore.

Agency : Sri. Rohan Constructions (Prop. Smt. Mamatha), Contractor, Chikkaballapura.

Name of Work : Flood Prevention & Improvements of works Junction point between Ashoknagar & Basavanagar & Surrounding area in ward no.31, Kushalanagar, BBMP, Bangalore.

Date of Testing :29.10.2022

IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	91	9.10	9.10	90.9	90-100
2.36	129	12.90	22.00	78.0	75-100
1.18	179	17.90	39.90	60.1	55-90
600 Micron	167	16.70	56.60	43.4	35-59
300 Micron	251	25.10	81.70	18.3	8-30
150 Micron	141	14.10	95.80	4.2	0-10

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K. Sreejith

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ಶಿಕ್ಷಣ ಮತ್ತು ಉಪವಿಭಾಗ
ಬಿಜಿಎಂಪಿ, ಬೆಂಗಳೂರು

For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE /BBMP/RS/W.No.12/2022-23

Date : 29.10.2022

TEST REPORT ON FINE AGGREGATES (SAND) IS 2116-1980

Client : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Agency : Sri R Shivaram, Contractor ,Bangalore.
Name of Work : Augmentation of Water Supply through Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & Chikkasandra Village in W.No.12, BBMP, Bangalore.

Date of Testing : 29.10.2022

Material : Sand - Masonry

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	15	1.50	1.50	98.5	90-100
1.18	40	4.00	5.50	94.5	70-100
600 Micron	87	8.70	14.20	85.8	40-100
300 Micron	249	24.90	39.10	60.9	5-70
150 Micron	485	48.50	87.60	12.4	0-15

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For CIVIL AIM CONSULTANTS & ENGINEERS

Prasanna
Authorised Signatory



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Job No.: CACE /BBMP/RS/W.No.12/2022-23

Date : 29.10.2022

TEST REPORT ON FINE AGGREGATES (SAND) IS 1542-1992

Client : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Agency : Sri R Shivaram, Contractor ,Bangalore.

Name of Work : Augmentation of Water Supply through Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigeri Village & Chikkasandra Village in W.No.12, BBMP, Bangalore.

Date of Testing : 29.10.2022

Material : Plastering Sand Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	31	3.10	3.10	96.9	95-100
2.36	34	3.40	6.50	93.5	95-100
1.18	49	4.90	11.40	88.6	90-100
600 Micron	81	8.10	19.50	80.5	80-100
300 Micron	265	26.50	46.00	54.0	20-65
150 Micron	511	51.10	97.10	2.9	0-15

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K. R. Srinivas

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ಜಿ.ಜಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು

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Authorised Signatory

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Job No.: CACE/BBMP/RC/W.No.31/2022-23

Date :29.10.2022

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, K G Halli Sub Division, BBMP, Bangalore.
Agency : Sri. Rohan Constructions (Prop. Smt. Mamatha), Contractor, Chikkaballapura.
Name of Work : Flood Prevention & Improvements of works Junction point between Ashoknagar & Basavanagar & Surrounding area in ward no.31, Kushalanagar, BBMP, Bangalore.
Date of Testing :29.10.2022
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	191	3.8	3.8	96.2	95-100
10	2445	48.9	52.7	47.3	25-55
4.75	1962	39.2	92.0	8.0	0-10

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Client : Assistant Executive Engineer, K G Halli Sub Division, BBMP, Bangalore.
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Name of Work : Flood Prevention & Improvements of works Junction point between Ashoknagar & Basavanagar & Surrounding area in ward no.31, Kushalanagar, BBMP, Bangalore.
Date of Testing :29.10.2022
IS Code : IS 383:2016
Material : IS 2386 (Part 1):1963(RA 2011)
: 40mm Aggregates

Total Wt. of Aggregates in gms

15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	197	1.31	1.31	98.69	95-100
20	8255	55.03	56.35	43.65	30-70
10	3249	21.66	78.01	21.99	10-35
4.75	2815	18.77	96.77	3.23	0-5

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Job No.: CACE /BBMP/RS/W.No.12/2022-23

Date: 31.10.2022

TEST REPORT ON CPVC PIPE

Client : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Agency : Sri R Shivaram, Contractor ,Bangalore.

Name of Work : Augmentation of Water Supply through Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & Chikkasandra Village in W.No.12, BBMP, Bangalore.

Sample Supplied by: AGENCY

BIS Code: : IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 50mm dia

Date of Testing : 31.10.2022

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	54	54.0 mm
2	Mean Outside Diameter (mm)	54	Min 53.9 mm Max 54.1 mm
3	Outside Diameter at Any Point (mm)	54.1	Min 53.7 mm Max 54.3mm
4	Density	1480Kg/m ³	1450 Kg/m ³ & 1650 Kg/m ³

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CIVIL AIM CONSULTANTS & ENGINEERS
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Job No.: CACE /BBMP/RS/W.No.12/2022-23

31.10.2022

TEST REPORT ON PVC PIPE

Client : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Agency : Sri R Shivaram, Contractor, Bangalore.

Name of Work : Augmentation of Water Supply through Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & Chikkasandra Village in W.No.12, BBMP, Bangalore.

Sample Supplied by: AGENCY

BIS Code: IS 4985:2000

Sample Identification: PVC pipe 250mm dia

Date of Testing 31.10.2022

Sl.No	Test	Test Result	Requirements as per IS 4985:2000
1	Nominal Outer Diameter (mm)	250	250 mm
2	Mean Outside Diameter (mm)	250.1	Min 250 mm Max 250.3 mm
3	Outside Diameter at Any Point (mm)	250.5	Min 250.1 mm Max 250.9 mm

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Job No.: CACE /BBMP/RS/W.No.12/2022-23

Date : 02.11.2022

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Agency : Sri R Shivaram, Contractor, Bangalore.

Name of Work : Augmentation of Water Supply through Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigeri Village & Chikkasandra Village in W.No.12, BBMP, Bangalore.

Steel Dia/Length : 8mm, 10mm, 12mm, " Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 02.11.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm ²)	Tensile strength (N/mm ²)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.396	545	635	1.17	14
2	TMT	10	0.619	555	646	1.16	14.5
3	TMT	12	0.891	565	660	1.17	15

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K. S. Rao

K. S. Rao
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ಬಿ.ಬಿ.ಎ. ಬಿ.ಬಿ.ಎ. ಬಿ.ಬಿ.ಎ.

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Job No.:CACE /BBMP/RS/W.No.12/2022-23

Date : 10.11.2022

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : Assistant Executive Engineer,Shettyhalli Sub division, BBMP, Bangalore.

Agency : Sri R Shivaram, Contractor ,Bangalore.

Name of the Work : Augmentation of Water Supply throught Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & ChikkasandraVillage in W.No.12, BBMP, Bangalore.

Date of Testing : 10.11.2022

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 60000 mm²

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (N)	Compressive strength (N/mm ²)	Block Density in Kg/M ³	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	24.2	250.2	4.17	2016.67	Minimum required Compressive Strength of Individual Units 4.00N/mm ²
2	Block 2	25.9	258.7	4.31	2158.33	
3	Block 3	25.3	255.1	4.25	2108.33	
4	Block 4	26.4	260.8	4.35	2200.00	

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K. Srinivas

K. Srinivas
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ಪ್ರಾಜೆಕ್ಟ್ ಉಪವಿಭಾಗ
ಜಿ.ಪಿ.ಎಂ.ಸಿ. ಬೆಂಗಳೂರು

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Job No.: CACE /BBMP/RS/W.No.12/2022-23

Date: 25.11.2022

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT CONCRETE TILES

Client : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Agency : Sri R Shivaram, Contractor, Bangalore.

Name of the work : Augmentation of Water Supply through Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & Chikkasandra Village in W.No.12, BBMP, Bangalore.

Description of Sample: Cement concrete flooring tiles, 25mm thick

Reference to BIS codes: IS 1237-2012 Specification for Cement Concrete Tiles

Date of test: 21.11.2022 to 25.11.2022

1. WATER ABSORPTION:

Sl. No.	Water Absorption		Acceptability as per IS 1237-2012
	Percent by weight		
	Individual	Average	
1	2.8	3.0	The average water absorption of 6 tiles shall not exceed 10%
2	2.9		
3	3.1		
4	2.9		
5	3		
6	3.2		

2. FLEXURAL STRENGTH:

S.No.	Wet Transverse Strength		Acceptability as per IS 1237-2012
	Individual	Average	
	N/mm ²	N/mm ²	
1	6.5	6.5	The average modulus of rupture in bending of 6 tiles shall not be less than 3N/mm ²
2	6.4		
3	6.7		
4	6.6		
5	6.3		
6	6.4		

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K. S. Srinivas

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School, Ramaiah Layout, Nagasandra, Bangalore - 560 073.

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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory



Job No.: CACE /BBMP/RS/W.No.12/2022-23

Date: 25.11.2022

TEST REPORT ON COLOUR GLAZED TILES

*Client : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

*Agency : Sri R Shivaram, Contractor, Bangalore.

*Name of Work : Augmentation of Water Supply through Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & Chikkasandra Village in W.No.12, BBMP, Bangalore.

Technical Reference : IS: 13630 - 2006 - Method of Testing Colour Glazed Tiles
IS 15622 - 2006 - Specification of Colour Glazed Tiles

No. of Samples Tested : 05 (Five)

Date of Testing : 21.11.2022 TO 25.11.2022

I. MODULUS OF RUPTURE

Sl. No.	Modulus of Rupture (N/mm ²)	Average (N/mm ²)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	47.9	48.16	Average 47, individual minimum 44 N/mm ²
2	48.2		
3	48.6		
4	47.6		
5	48.5		

II. CHEMICAL RESISTANCE

Sl. No.	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	No visible effect	Class AA, min (13630 Part 8)
2	No visible effect	
3	No visible effect	
4	No visible effect	
5	No visible effect	

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III.

STAIN RESISTANCE

Sl. No.	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	Stain Removed by Water	Class 1, min (13630 Part 8)
2	Stain Removed by Water	
3	Stain Removed by Water	
4	Stain Removed by Water	
5	Stain Removed by Water	

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

K. Sreejith

K. Sreejith
ಕರ್ನಾಟಕ ರಾಜ್ಯದ
ಶಿಕ್ಷಣ ಮತ್ತು ಉಪವಿಭಾಗ
ಬೆಂಗಳೂರು, ಬೆಂಗಳೂರು

For CIVIL AIM CONSULTANTS & ENGINEERS
Rajwal
Authorised Signatory